

# **Industry Curriculum Framework Information Package**

# Construction

**Current as at February 2009**

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[https://detwww.det.nsw.edu.au/directorates/vet\\_schools/vet-in-Schools/frameworks.html](https://detwww.det.nsw.edu.au/directorates/vet_schools/vet-in-Schools/frameworks.html)



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This section must be read in conjunction with the:

- Board of Studies Construction (Parts A & B)
- Board of Studies ACE Manual
- Workplace Learning Handbook

The following information is provided for the Construction Industry Curriculum Framework:

- Teacher training requirements
- Assessor qualifications
- Using qualified assessors
- Resource/equipment requirements
- Quality assurance requirements

#### Checklists

1. Teacher qualifications
2. Student work placement
3. Student assessment
4. Resources/equipment

# Possible qualifications from the General Construction Training Package BCG03

## ***Construction (120 Indicative Hours)***

- Potential for Statement of Attainment towards Certificate I in Construction BCG10103 and;
- Statement of Attainment towards Certificate II in General Construction (BCG20103)

## ***Construction (240 Indicative Hours)***

- Potential for completion of Certificate I in Construction BCG10103:
- Statement of Attainment towards Certificate II in General Construction (BCG20203)
- Statement of Attainment towards Certificate III in Bricklaying/Blocklaying (BCG30103)
- Statement of Attainment towards Certificate III in Carpentry (BCG30203)
- Statement of Attainment towards Certificate III in Concreting (BCG30303)
- Statement of Attainment towards Certificate III in Painting and Decorating (BCG30603)
- Statement of Attainment towards Certificate III in Wall and Floor Tiling (BCG31303).

## ***Construction Specialist Studies (60 Indicative Hours) or Construction Specialist Studies (120 Indicative Hours)***

Depending on the selection and achievement of units of competency, the possible qualification outcomes are:

- Certificate II in General Construction (BCG20203)
- Statement of Attainment towards Certificate III in Bricklaying/Blocklaying (BCG30103)
- Statement of Attainment towards Certificate III in Carpentry (BCG30203)
- Statement of Attainment towards Certificate III in Concreting (BCG30303)
- Statement of Attainment towards Certificate III in Painting and Decorating (BCG30603)
- Statement of Attainment towards Certificate III in Wall and Floor Tiling (BCG31303).

# Teacher training requirements

## ***Entry Requirement to the Construction Retraining Program***

The general requirement for entry to the secondary teacher training program in Construction is a teaching qualification in Industrial Arts.

Teachers from other Key Learning areas (KLAs) with relevant industry experience and/or qualifications may seek entry to the VET Construction training program through the recognition of prior learning (RPL) process.

Similarly, teachers who are accepted into the training program can seek exemptions from components of the training program via RPL. Applications must be supported by primary documented evidence of recent experience and/or qualifications, mapped against the competencies to be delivered in schools.

### **Approved training program - Construction**

Teachers completing this training program are eligible to deliver and assess:

Construction 120 indicative hour course

Construction 240 indicative hour course

The course structure delivery pattern consists of the compulsory HSC units of competency listed below:

<b>Compulsory Units</b>		
BCG03 UOC CODE	NAME OF UNIT	CONTEXT FOR DELIVERY
BCGCM1001B	Follow OH&S policies and procedures	Previously trained
BCGCM1002B	Work effectively in the general construction industry	Previously trained
BCGCM1003B	Plan and organise work	Previously trained
BCGCM1004B	Conduct workplace communication	Previously trained
BCGCM1005B	Carry out measurements and calculations	Previously trained
BCGCM2001B	Read and interpret plans and specifications	Previously trained
BCGCM2004B	Handle construction materials	Previously trained
BCGCM2005B	Use construction tools and equipment	Previously trained
BCGCM2006B	Apply basic levelling procedures	Previously trained
RTC2704A	Provide basic first aid	Previously trained

Plus elective units of competency selected from the list below for which you hold accreditation:

<b>Elective Units</b>		
<b>UNIT CODE</b>	<b>NAME OF UNIT</b>	<b>CONTEXT FOR DELIVERY</b>
BCGCM2009B	Carry out basic demolition	Previously trained
BCCCM2004B	Drain and dewater site	Previously trained
BCGBL2001B	Handle and prepare bricklaying and blocklaying materials	Previously trained
BCGCA2001B	Handle carpentry materials	Previously trained
BCGCA2002B	Use carpentry tools and equipment	Previously trained
BCGCA2003B	Erect and dismantle formwork for footings and slabs on ground	Previously trained
BCGCA3023B	Carry out levelling operations	Previously trained
BCGCM2002B	Carry out excavation	Previously trained
BCGCO2001B	Handle concreting materials	Previously trained
BCGCO2002B	Use concreting tools and equipment	Previously trained
BCGCO2003B	Carry out concreting to simple forms	Previously trained
BCGCO2004B	Carry out concrete work	Previously trained
BCGPD2001B	Handle painting and decorating materials	Previously trained
BCGPD2002B	Use painting and decorating tools and equipment	Previously trained
BCGSF2004B	Place and fix reinforcement materials	Previously trained
BCGSP2003B	Prepare surfaces for plastering	Previously trained
BCGWF2002B	Use wall and floor tiling tools and equipment	Previously trained
BCGVE1002B	Undertake a basic construction project	Previously trained
BCGVE1003B	Undertake a basic computer design project	Previously trained
BCGVE1004B	Undertake a basic estimation and costing	Previously trained
BCGVE2001B	Produce construction drawings	Previously trained
BSBCM209A	Provide information to clients	Previously trained

### ***Approved teacher training program***

The approved training program is designed to address any skills gaps identified through the recognition process. Only teachers who meet the entry requirement or are granted recognition of prior learning for entry will be eligible to participate in the training program.

<b>APPROVED TEACHER TRAINING PROGRAM</b>	<b>DURATION</b>
Orientation  Curriculum framework/syllabus orientation, competency based teaching and assessment, facilitating workplace learning, RTO compliance	2 days
Training and qualification as an examiner of resuscitation and emergency care	1 day
Training and qualification to deliver OHS General Induction Training for Construction Work	1 day
Certificate IV in Training and Assessment (TAA 40104)	Flexible delivery
Industry specific training  The industry specific training covers relevant units of competency from the industry curriculum framework	4 days

Assessment is integrated into the training program.

**NOTE:** Teachers are required to bring specified safety equipment and tools for the industry specific training component.



## ***OHS for Construction - General Induction***

Teachers must be registered with their school authority before they can deliver the General Occupational Health and Safety for Construction - General Induction course (course approval number 03893). The Retraining Unit in the Human Resources Directorate maintains a database of registered DET teachers who have met the three requirements for delivery of the course: teacher/trainer qualifications, Construction training and Construction-specific OHS training.

## ***Qualifications and industry experience***

Teachers who have recent and relevant qualifications or industry experience may seek entry to or exemption from some components of training or may claim eligibility to teach additional units of competency through the process of recognition of prior learning (RPL). All teachers are required to complete an orientation program.

## ***Maintaining industry currency***

The requirement for current knowledge will be met initially through completion of the approved teacher training program. Thereafter, it is the responsibility of individual teachers to maintain industry currency.

Teachers can maintain industry currency through:

- industry contact and liaison
- collegial networks with a professional development focus
- interaction with colleagues through the VET teachers' website at [www.govet.nsw.edu.au](http://www.govet.nsw.edu.au).

For further details, contact your vocational education consultant.

## ***Assessor qualifications***

Consistent with VETAB requirements, the NSW Department of Education and Training, Catholic Education Commission and Association of Independent Schools require that all staff assessing training package qualifications hold a Certificate IV in Training and Assessment (TAA 40104) (or the Certificate IV in Assessment and Workplace Training (BSZ 40198) which has been deemed equivalent). Teachers can gain this qualification through an approved teacher training program or through a process of recognition.

## ***Using qualified assessors***

Assessment for national recognition purposes (qualifications) must be undertaken by, or partnered through, a Registered Training Organisation (RTO). It is the RTO's responsibility to make arrangements and to ensure that a quality assessment process is in place.

The following outlines the different ways that the requirement to use qualified assessors may be met.

Single assessor – individual conducts the assessment

The assessor must:

- hold Certificate IV in Training and Assessment (TAA 40104) (or the Certificate IV in Assessment and Workplace Training (BSZ 40198) which has been deemed equivalent)

In addition, it is recommended that the assessor is able to:

- demonstrate current knowledge of the industry, industry practices, and the job or role against which performance is being assessed

- demonstrate current industry knowledge and skill in assessing against the Construction Training Package in a range of contexts
- demonstrate the necessary interpersonal and communication skills required in the assessment process.

### ***Partnership arrangement – the assessor works with a technical expert to conduct the assessment***

The assessor must:

- hold Certificate IV in Training and Assessment (TAA 40104) (or the Certificate IV in Assessment and Workplace Training (BSZ 40198) which has been deemed equivalent)

In addition, it is recommended that the assessor is able to:

- demonstrate the necessary interpersonal and communication skills in the assessment process
- demonstrate current knowledge and skill in assessing against the Construction Training Package in a range of contexts.

The technical expert must:

- be deemed competent and where possible hold formal recognition of competence in the specific Units of Competency from the Construction Training Package at least to the level being assessed
- demonstrate current knowledge of the industry, industry practices, and the job or role against which performance is being assessed.

### ***Using qualified assessors***

Assessment for national recognition purposes (qualifications) must be undertaken by, or partnered through, an RTO. It is the RTO's responsibility to make arrangements and to ensure that a quality assessment process is in place.

In the case of the Construction framework, assessment may occur through the use of qualified assessors or through partnering arrangements using a technical expert with a qualified assessor.

### ***Single assessor – an individual assessor conducts the assessment***

An assessor is required to:

- hold formal recognition of competence in the relevant units in the Training Package for Assessment and Workplace Training
- be deemed competent and hold formal recognition of competence in the specific Units of Competency in this Training Package, at least to the level being assessed

In addition, it is recommended that the assessor is able to:

- demonstrate current knowledge of the industry, industry practices, and the job or role against which performance is being assessed
- demonstrate current knowledge and skill in assessing against this Training Package in a range of contexts
- demonstrate the necessary interpersonal and communication skills required in the assessment process

### ***Partnership arrangement – an assessor works with a technical expert to conduct the assessment***

Assessor is required to hold formal recognition of competence in the relevant units in the Training Package for Assessment and Workplace Training.

In addition, it is recommended that the assessor be able to:

- demonstrate current knowledge and skill in assessing against this Training Package in a range of contexts
- demonstrate the interpersonal and communication skills required in the assessment process

A technical expert is required to be deemed competent and hold formal recognition of competence in the specific Units of Competency from this Training Package, at least to the level being assessed.

In addition, it is recommended that the Technical Expert be able to:

- demonstrate current knowledge of the industry, industry practices, and the job or role against which performance is being assessed
- communicate and liaise with the assessor throughout the assessment process

### ***Partnership arrangement – assessment team/panel and/or a team working together to conduct the assessment***

Members of an assessment team or panel that comprises assessment and industry experience and expertise works together in the collection of evidence and in making judgements about competency.

The members of the team must include at least one person who:

- holds formal recognition of competence in Assessment and Workplace Training in the relevant units in the Training Package
- is deemed competent and holds formal recognition of competence in the specific Units of Competency from this Training Package, at least to the level being assessed

In addition, it is recommended that members of the team/panel involved in the assessment be able to:

- demonstrate current knowledge of the industry, industry practices, and the job or role against which performance is being assessed
- demonstrate current knowledge and skill in assessing against this Training Package in a range of contexts
- demonstrate the interpersonal and communication skills required in the assessment process and liaise with other team/panel members throughout the assessment process

## Essential resources/equipment requirements

Schools delivering units of competency in the Construction course must have access to specific resources/equipment. Students must have sufficient access to the specified resources/equipment to enable them to acquire and demonstrate competency. The following resources/equipment are required to deliver and assess the units of competency. Resources/equipment may be accessible either on-site (at school) or off-site (including while the student is on work placement).

### Please note that all resources/equipment selected **MUST**

- comply with DET policy and procedures
- **be appropriate to the unit of competency being assessed and the circumstance of the assessment.**

### All equipment lists to be read in conjunction with

- Board of Studies Construction Syllabus (Parts A & B)
- advice provided in current **Equipment Safety in Schools – Advice to Schools**
- advice provided in Memorandums DN/03/00228 and DN/03/00604, which can be found at <http://detwww.det.nsw.edu.au/directorates/properties/schools/compenvi/safety/sgadvice.htm>
- advice provided in the current **Chemical Safety in Schools package**, which can be found at <http://detwww.det.nsw.edu.au/directorates/properties/schools>

### The following resources and equipment should be made available for delivery of the units of competency listed:

- current and relevant OH&S legislation and codes of practice.
- materials and equipment relevant to following OH&S policies and procedures
- specifications and work instructions related specifically to the unit of competence.
- relevant quality assurance regulations including *Building Code of Australia (BCA)*, *Australian Standards*, internal company policy and standards, workplace operations and procedures and manufacturers' specifications
- appropriate signage including hazard identification, facility or location, site safety, directional, traffic and warning signs and symbols



**Personal protective equipment (PPE)**

Teachers must ensure that students are wearing personal protective equipment **appropriate to the task being undertaken or the unit of competency being assessed**. Please note that all PPE must meet Australian Standards.

The students should be exposed to:

- steel cap boots
- high visibility vests (limit time worn in hot weather)
- hard hat/cap
- eye protection/safety glasses/goggles
- gloves appropriate for task eg for chemical hazards, physical handling, thermal hazards
- hearing protection eg ear muffs/plugs
- dust mask/respirator
- sun protection

**Resource material relevant to the construction industry include:**

- School environmental management policy
- Site safety management plan
- work schedules
- job sheet/plans/specifications and work instructions
- organisation/company bulletins/memos
- Material Safety Data Sheets (MSDS)
- diagrams/sketches/maps
- job safety analysis (JSA)/safe work method statements
- relevant Acts, regulations and codes of practice
- advice from regulatory authorities
- manufacturer/organisation/site guidelines, policies and procedures
- Building Code of Australia (BCA)
- Australian Standards
- verbal or written and graphical instructions eg construction plans and drawings

**Environmental management practices relevant to the Construction industry include the following:**

- waste management
- noise
- dust
- vibration
- clean-up management
- stormwater management



**First Aid**

Trained Construction teachers must maintain:

- a current Resuscitation and Senior First Aid qualification.

**Electrical Safety**

All electrical tools and equipment that are to be used with an extension cable must have an earth leakage circuit breaker (ELCB). All cables must be rated for length and load requirements appropriate for the task. WorkCover NSW requires that all electrical leads be placed on stands.



BCGCM1001B Follow OH&S Policies and Procedures	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• first aid kit - Kit B as per NSW WorkCover requirements</li> <li>• basic fire fighting equipment,</li> </ul>	<p><b>Materials relevant to OH &amp; S policies and procedures including:</b></p> <ul style="list-style-type: none"> <li>• fire extinguisher refill</li> </ul>
For site requirements please refer to Part B of the Construction syllabus	

BCGCM1002B Work effectively in the General Construction Industry	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.	
For site requirements please refer to Part B of the Construction syllabus	

BCGCM1003B Plan and organise work	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and Equipment</b> - consistent for the task at hand</p>	<p><b>Materials relevant to tasks being organised</b></p>
For site requirements please refer to Part B of the Construction syllabus	

<b>BCGCM1004B</b> <b>Conduct workplace communication</b>	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
<b>Essential tools, equipment and resources</b>	<b>Consumables</b>
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b><i>Tools and Equipment must include but not limited to</i></b></p> <ul style="list-style-type: none"> <li>• telephones (including mobiles)</li> <li>• specifications and work instructions</li> </ul>	
<b>For site requirements please refer to Part B of the Construction syllabus</b>	

<b>BCGCM1005B</b> <b>Carry out measurements and calculations</b>	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
<b>Essential tools, equipment and resources</b>	<b>Consumables</b>
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b><i>Tools and equipment must include but not limited to:</i></b></p> <ul style="list-style-type: none"> <li>• calculators</li> <li>• rulers</li> <li>• tape measure</li> <li>• trundle wheel</li> <li>• compass</li> </ul>	
<b>For site requirements please refer to Part B of the Construction syllabus</b>	



<b>BCGCM2001B</b> <b>Read and interpret plans and specifications</b>	
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.</p>	
Essential tools, equipment and resources	Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• calculators</li> <li>• rulers</li> <li>• tape measure</li> <li>• trundle wheel</li> <li>• compass</li> </ul> <p>Project documentation and specifications which includes:</p> <ul style="list-style-type: none"> <li>• contracts</li> <li>• drawings (specifications, supplementary specifications, work schedules, schedule of rates, standard procedures and practices)</li> <li>• access to <i>Building Code of Australia</i></li> </ul>	
<p><b>For site requirements please refer to Part B of the Construction syllabus</b></p>	

<b>BCGCM2004B</b> <b>Handle construction materials</b>	
<p><b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b></p>	
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.</p>	
Essential tools, equipment and resources	Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <p>Hand and power tools appropriate to handling construction materials eg.</p> <ul style="list-style-type: none"> <li>• hammer</li> <li>• pinch bar</li> <li>• pallet</li> <li>• wheelbarrow</li> <li>• shovel</li> <li>• rake</li> <li>• broom</li> <li>• hose</li> <li>• tin snips</li> <li>• bucket</li> <li>• site bin</li> </ul>	<p><b>Construction materials and building components relevant to construction handling activities including:</b></p> <ul style="list-style-type: none"> <li>• timber</li> <li>• reconstituted timber products</li> <li>• sheet materials</li> <li>• bricks and masonry units</li> <li>• bulk earth materials(sand, soil, aggregate etc)</li> <li>• bagged materials (ie cement)</li> <li>• safe storage of construction materials</li> <li>• materials for cleaning up construction activity (see Material Safety Data Sheet)</li> </ul> <p><b>Consumables</b></p> <ul style="list-style-type: none"> <li>• dust mask</li> <li>• cleaning agents</li> </ul>
<p><b>For site requirements and materials please refer to Part B of the Construction syllabus.</b></p>	

BCGCM2005B Use construction tools and equipment		
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment & resources		Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b><i>Tools and equipment must include but not limited to:</i></b></p> <p>Reasonable access to tools appropriate to the task such as:</p> <ul style="list-style-type: none"> <li>• rule</li> <li>• tape</li> <li>• square</li> <li>• hammer</li> <li>• hand saw</li> <li>• hand plane</li> <li>• vice</li> <li>• chisels</li> <li>• shovel</li> <li>• wheelbarrow</li> <li>• sledge hammer</li> <li>• pick</li> <li>• mattock</li> <li>• crow bar</li> <li>• pinch bar</li> </ul>	<p>Power and pneumatic tools, including electrical and compressed air safety tools</p> <ul style="list-style-type: none"> <li>• electric plane *</li> <li>• power saw *</li> <li>• drop and slide saw *</li> <li>• portable circular saw bench</li> <li>• bench grinder *</li> <li>• impact power drill *</li> <li>• cordless power drill *</li> <li>• nail gun *</li> <li>• impact hammer</li> <li>• generator ∞</li> <li>• compressor ∞</li> <li>• leads and hoses *</li> <li>• 240v power supplied plant and equipment *</li> </ul> <p>* Refer to Equipment Safety in Schools Policy re Tools and Equipment</p> <p>∞ Further risk assessment advice to be provided on the OH&amp;S Directorate web site</p> <p><a href="http://detwww.det.nsw.edu.au/directorates/properties/schools/compenvi/safety/sgadvice.htm">http://detwww.det.nsw.edu.au/directorates/properties/schools/compenvi/safety/sgadvice.htm</a></p>	<p><b><i>Materials relevant to construction tools and equipment including:</i></b></p> <ul style="list-style-type: none"> <li>• cleaning agents as per manufacturer's recommendations</li> <li>• drill bits</li> <li>• saw blades</li> <li>• nails</li> <li>• screws</li> <li>• adhesives</li> <li>• abrasives</li> <li>• grinding wheels</li> <li>• fuels and lubricants</li> </ul>
<b>For site requirements please refer to Part B of the Construction syllabus</b>		

BCGCM2006B Apply basic levelling procedures	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• spirit level</li> <li>• laser levelling device</li> <li>• optical levelling device</li> <li>• water level</li> <li>• line level</li> <li>• string line</li> <li>• tape measure</li> <li>• survey pegs</li> <li>• levelling staff</li> <li>• plumb bob</li> <li>• measuring tapes/rules</li> <li>• trundle wheel</li> <li>• straight edge</li> <li>• hammer/mallet</li> <li>• shovel</li> </ul>	<p><b>Materials relevant to the operation and maintenance of levelling equipment including:</b></p> <ul style="list-style-type: none"> <li>• hurdles</li> <li>• chalk</li> <li>• marking paint</li> <li>• cleaning agents</li> </ul>
For site requirements please refer to Part B of the Construction syllabus	

RTC2704A Provide basic first aid	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <ul style="list-style-type: none"> <li>• First Aid Kit</li> <li>• resuscitation manikins</li> <li>• First Aid Manuals</li> <li>• documentation for reporting and recording incidents including: accident report form; Work Cover incident form: first aid register</li> <li>• workplace documentation regarding emergency procedures, including policies and manuals regarding provision of first aid</li> </ul>	<p><b>Materials relevant to delivery including:</b></p> <ul style="list-style-type: none"> <li>• disposable face shields</li> <li>• manikin cleaning agents</li> <li>• roller bandages</li> <li>• dressings – assorted</li> <li>• First Aid Kit contents</li> </ul>
For site requirements please refer to Part B of the Construction syllabus	

BCGCM2009B Carry out basic demolition		
Pre-requisite unit: BCGCM10001B Follow OH&S policies and procedures		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources		Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b><i>Tools and equipment must include but not limited to:</i></b></p> <ul style="list-style-type: none"> <li>• crow bar</li> <li>• pinch bar</li> <li>• bolt cutter</li> <li>• sledge hammer</li> <li>• spanner</li> <li>• wrench</li> <li>• pick/mattock</li> <li>• power drill and saw *</li> <li>• angle grinder *</li> </ul>	<ul style="list-style-type: none"> <li>• electric tester *</li> <li>• shovel/spade</li> <li>• broom</li> <li>• chisel</li> <li>• wheelbarrow</li> <li>• hack saw</li> <li>• hand saw</li> <li>• hammer</li> <li>• pliers</li> <li>• water hose and attachment</li> <li>• signs</li> <li>• barricades</li> </ul> <p>* Refer to Equipment Safety in Schools Policy</p>	<p><b><i>Materials relevant to maintenance of tools and equipment.</i></b></p>
For site requirements please refer to Part B of the Construction syllabus		

BCCCM2004B Drain and dewater site	
Pre-requisite unit: BCGCM10001B Follow OH&S policies and procedures	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and Equipment must include but not limited:</b></p> <ul style="list-style-type: none"> <li>• <b>One</b> of the following pumps: <ul style="list-style-type: none"> <li>-submersible pump ∞</li> <li>- -vacuum pump ∞</li> <li>- -surface pump ∞</li> <li>- -sludge pump ∞</li> </ul> </li> <li>• hoses</li> <li>• hand excavation equipment eg shovel</li> <li>• broom</li> <li>• wheelbarrow</li> </ul> <p>Traffic signs and devices</p> <ul style="list-style-type: none"> <li>• temporary warning signs</li> <li>• regulatory signs</li> <li>• traffic cones</li> <li>• barricades</li> </ul> <p>∞ Further risk assessment advice to be provided on the OH&amp;S Directorate web site  <a href="http://detwww.det.nsw.edu.au/directorates/properties/schools/compenvi/safety/sgadvice.htm">http://detwww.det.nsw.edu.au/directorates/properties/schools/compenvi/safety/sgadvice.htm</a></p>	<p><b>Materials required to drain and de-water site including:</b></p> <ul style="list-style-type: none"> <li>• straw bales</li> <li>• silt fences</li> <li>• rocks</li> <li>• plastic piping</li> <li>• stakes/pegs</li> <li>• plastic sheeting</li> </ul>
For site requirements please refer to Part B of the Construction syllabus	

BCGBL2001B Handle and prepare bricklaying and blocklaying materials		
Pre-requisite unit: BCGCM10001B Follow OH&S policies and procedures		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources		Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• cement mixer ∞</li> <li>• bucket</li> <li>• wheelbarrow/brick barrow</li> <li>• brick grabs</li> <li>• broom</li> <li>• hoses</li> <li>• shovel</li> <li>• rake</li> <li>• measuring tape/rule</li> <li>• hammer (brickies, club, scutch)</li> <li>• bolster</li> <li>• spirit level</li> <li>• trowel</li> </ul>	<ul style="list-style-type: none"> <li>• jointing tool</li> <li>• mortar board</li> <li>• straight edge</li> <li>• line blocks</li> <li>• line pins</li> <li>• builders lines</li> <li>• masonry saws (wet or dry) #- ∞</li> </ul> <p># Item of equipment would normally be accessed off site – students are NOT required to use this equipment)</p> <p>∞ Further risk assessment advice to be provided on the OH&amp;S Directorate web site</p> <p><a href="http://detwww.det.nsw.edu.au/directories/properties/schools/compenvi/safety/sgadvice.htm">http://detwww.det.nsw.edu.au/directories/properties/schools/compenvi/safety/sgadvice.htm</a></p>	<p><b>Materials relevant to handling of bricklaying and blocklaying materials including:</b></p> <ul style="list-style-type: none"> <li>• clay bricks</li> <li>• masonry blocks</li> <li>• timber/plywood</li> <li>• sealants</li> <li>• reinforcing materials</li> <li>• cement and lime</li> <li>• safe storage of construction materials</li> <li>• cleaning agents</li> </ul>
For site requirements please refer to Part B of the Construction syllabus		

BCGCA2001B Handle carpentry materials		
Pre-requisite unit: BCGCM10001B Follow OH&S policies and procedures		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources		Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <p>hammers</p> <ul style="list-style-type: none"> <li>• pinch bars</li> <li>• pallets</li> <li>• wheelbarrows</li> </ul>	<ul style="list-style-type: none"> <li>• brooms</li> <li>• buckets</li> <li>• hoses</li> <li>• shovels</li> <li>• equipment for dust suppression</li> </ul> <p>Preparation for mechanical handling of materials by equipment such as forklifts.</p> <p><b>NOTE:</b> Students are <b>not</b> required to drive forklifts or other lifting equipment.</p>	<p><b>Materials relevant to carpentry handling activities including:</b></p> <ul style="list-style-type: none"> <li>• timber</li> <li>• reconstituted timber products (sheet materials)</li> </ul>
For site requirements please refer to Part B of the Construction syllabus		

BCGCA2002B Use carpentry tools and equipment		
Pre-requisite unit: BCGCM10001B Follow OH&S policies and procedures		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources		Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and Equipment appropriate to the task. They may include such tools as:</b></p> <ul style="list-style-type: none"> <li>• rules</li> <li>• tapes</li> <li>• squares</li> <li>• hammers</li> <li>• hand saw</li> <li>• hand plane</li> <li>• chisels</li> <li>• power saw *</li> <li>• electric plane *</li> <li>• impact power drill</li> <li>• nail gun *</li> </ul>	<ul style="list-style-type: none"> <li>• compressor ∞</li> <li>• non-tungsten tip power saw blade ∞</li> <li>• grinding and sharpening equipment</li> <li>• leads and hoses *</li> <li>• generators ∞</li> </ul> <p>* Refer to Equipment Safety in Schools Policy re Tools and equipment</p> <p>∞ Further risk assessment advice to be provided on the OH&amp;S Directorate web site</p> <p><a href="http://detwww.det.nsw.edu.au/directories/properties/schools/compenvi/safety/sgadvice.htm">http://detwww.det.nsw.edu.au/directories/properties/schools/compenvi/safety/sgadvice.htm</a></p>	<p><b>Materials relevant to using carpentry tools and equipment</b></p>
For site requirements please refer to Part B of the Construction syllabus		

BCGCA2003B Erect and dismantle formwork for footings and slabs on ground		
Pre-requisite unit: BCGCM10001B Follow OH&S policies and procedures		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources		Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• measuring tape/rule</li> <li>• hammer</li> <li>• spirit level</li> <li>• squares (combination/tri)</li> <li>• nail bag</li> <li>• chisel</li> <li>• hand saw</li> <li>• saw stool (saw horse)</li> </ul>	<ul style="list-style-type: none"> <li>• string line</li> <li>• plum bob</li> <li>• shovel</li> <li>• marking equipment</li> <li>• pinch bars</li> <li>• appropriate levelling equipment</li> <li>• power cables/leads *</li> <li>• cement mixer</li> </ul> <p>* Refer to Equipment Safety in Schools Policy re tools and equipment</p>	<p><b>Materials relevant to erecting and dismantling of formwork for footings and slabs on ground including:</b></p> <ul style="list-style-type: none"> <li>• formwork (either timber, metal, masonry, fibre cement sheeting, reconstituted timber products)</li> <li>• nuts, bolts, screws</li> <li>• plastic membrane</li> <li>• steel reinforcing</li> <li>• concrete</li> <li>• reinforcing mesh chairs</li> <li>• timber set-outs</li> </ul>
For site requirements please refer to Part B of the Construction syllabus		

<b>BCGCA3023B</b> <b>Carry out levelling operations</b>	
<b>Pre-requisite units:</b> <b>BCGCM10001B Follow OH&amp;S policies and procedures</b> <b>BCGCM2006B Apply basic levelling procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.  <b><i>Tools and equipment must include but not limited to:</i></b> <ul style="list-style-type: none"> <li>• laser levelling device</li> <li>• optical levelling device</li> <li>• levelling staff</li> <li>• spirit level</li> <li>• water level</li> <li>• line level</li> <li>• string line</li> <li>• tape measure</li> <li>• survey pegs</li> <li>• plumb bob</li> <li>• measuring tapes/rules</li> <li>• trundle wheel</li> <li>• straight edge</li> <li>• hammer/mallet</li> <li>• shovel</li> </ul>	<b><i>Materials relevant to levelling operations.</i></b>
For site requirements please refer to Part B of the Construction syllabus	

<b>BCGCM2002B</b> <b>Carry out excavation</b>	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.  <b><i>Tools and equipment must include but not limited to:</i></b> <ul style="list-style-type: none"> <li>• hammers</li> <li>• measuring tapes/rules</li> <li>• shovels</li> <li>• string lines</li> <li>• levelling equipment</li> <li>• hand and power tools appropriate for carrying out excavation eg shovel, pick, mattock, wheelbarrows, brooms,</li> <li>• safety barriers</li> <li>• signage eg appropriate identification markers for services that may be damaged or interfered with by excavation.</li> </ul>	<b><i>Materials relevant to carrying out excavation</i></b>
For site requirements please refer to Part B of the Construction syllabus	



BCGO2001B Handle concreting materials	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• shovels</li> <li>• rakes</li> <li>• tarpaulins/covers</li> <li>• wheelbarrows</li> <li>• brooms</li> <li>• MSDS for concrete and cement</li> </ul>	<p><b>Materials and components relevant to concrete handling activities including:</b></p> <ul style="list-style-type: none"> <li>• cement</li> <li>• form release agents</li> <li>• sand</li> <li>• aggregates</li> <li>• steel or timber formwork</li> <li>• reinforcement mesh</li> <li>• plastic membrane</li> <li>• bar chairs</li> <li>• spacers</li> </ul>
For site requirements please refer to Part B of the Construction syllabus	

BCGO2002B Use concreting tools and equipment		
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources	Consumables	
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• floats</li> <li>• shovels</li> <li>• screeds</li> <li>• vibrating equipment ∞</li> <li>• leads *</li> <li>• generator ∞</li> <li>• compressor ∞</li> <li>• crow bars and pinch bars</li> <li>• hammers</li> <li>• nail bags</li> <li>• measuring tapes</li> <li>• sledge hammers</li> <li>• picks</li> <li>• long handled shovels</li> <li>• rakes</li> <li>• pliers</li> <li>• steel fixing wire</li> </ul>	<ul style="list-style-type: none"> <li>• cutting knives</li> <li>• string lines</li> <li>• levelling equipment and tools</li> <li>• bolt cutters</li> <li>• angle grinder *</li> <li>• edging tools</li> <li>• trowels</li> <li>• jointers</li> <li>• kneel boards</li> <li>• concrete mixer ∞</li> <li>• wheelbarrows</li> </ul> <p>* Refer to Equipment Safety in Schools Policy re Tools and Equipment</p> <p>∞ Further risk assessment advice to be provided on the OH&amp;S Directorate web site</p> <p><a href="http://detwww.det.nsw.edu.au/directories/properties/schools/compenvi/safety/sgadvice.htm">http://detwww.det.nsw.edu.au/directories/properties/schools/compenvi/safety/sgadvice.htm</a></p>	<p><b>Materials and components relevant to using concreting tools and equipment including:</b></p> <ul style="list-style-type: none"> <li>• cement</li> <li>• form release agents</li> <li>• sand</li> <li>• aggregates</li> <li>• steel or timber formwork</li> <li>• reinforcement mesh</li> <li>• plastic membrane</li> <li>• bar chairs</li> <li>• spacers</li> <li>• steel wire for fixing reinforcing</li> <li>• expansion joint</li> </ul>
For site requirements please refer to Part B of the Construction syllabus		

BCGCO2003B Carry out concreting to simple forms		
Pre-requisite unit: BCGCM10001B Follow OH&S policies and procedures		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources		Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• wheelbarrows</li> <li>• chutes</li> <li>• hand screed</li> <li>• shovels</li> <li>• brooms</li> <li>• trowels</li> <li>• edging tools</li> <li>• floats</li> <li>• screeds</li> <li>• vibrating equipment ∞</li> <li>• generator ∞</li> <li>• compressor ∞</li> <li>• crow bars and pinch bars</li> <li>• hammers</li> <li>• nail bags</li> <li>• measuring tapes</li> <li>• sledge hammers</li> <li>• picks</li> <li>• long handled shovels</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• rakes</li> <li>• pliers</li> <li>• steel fixing wire</li> <li>• cutting knives</li> <li>• string lines</li> <li>• levelling equipment and tools</li> <li>• bolt cutters</li> <li>• angle grinder *</li> <li>• screeds</li> <li>• edging tools</li> <li>• jointers</li> <li>• kneel boards</li> <li>• concrete mixer ∞</li> </ul> <p>* Refer to Equipment Safety in Schools Policy re Tools and Equipment</p> <p>∞ Further risk assessment advice to be provided on the OH&amp;S Directorate web site</p> <p><a href="http://detwww.det.nsw.edu.au/directorates/properties/schools/compenvi/safety/sgadvice.htm">http://detwww.det.nsw.edu.au/directorates/properties/schools/compenvi/safety/sgadvice.htm</a></p>	<p><b>Materials relevant to concreting including:</b></p> <ul style="list-style-type: none"> <li>• edge forms/boards (timber or steel)</li> <li>• pegs</li> <li>• bracing</li> <li>• fabric sheet/mesh</li> <li>• cement</li> <li>• form release agents</li> <li>• sand</li> <li>• aggregates</li> <li>• steel and timber formwork</li> <li>• reinforcement mesh</li> <li>• plastic membrane</li> <li>• bar chairs</li> <li>• spacers</li> <li>• fasteners</li> <li>• steel wire for fixing reinforcing</li> <li>• expansion joint</li> </ul>
For site requirements please refer to Part B of the Construction syllabus		

BCGCO2004B Carry out concrete work		
Pre-requisite unit: BCGCM10001B Follow OH&S policies and procedures		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources		Consumables
<p><b>NOTE:</b> Need to provide evidence of concreting stairs</p> <p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• pumping equipment with flexible hose</li> <li>• kibble</li> <li>• tremmie</li> <li>• flexible hose</li> <li>• steel trowel</li> <li>• mechanical trowelling machine</li> <li>• wheelbarrows</li> <li>• chutes</li> <li>• hand screed</li> <li>• shovels</li> <li>• brooms</li> <li>• trowels</li> <li>• edging tools</li> <li>• floats</li> <li>• screeds</li> <li>• vibrating equipment ∞</li> <li>• generator ∞</li> <li>• compressor ∞</li> <li>• crow bars and pinch bars</li> <li>• hammers</li> <li>• nail bags</li> </ul>	<ul style="list-style-type: none"> <li>• measuring tapes</li> <li>• sledge hammers</li> <li>• picks</li> <li>• long handled shovels</li> <li>• rakes</li> <li>• pliers</li> <li>• steel fixing wire</li> <li>• cutting knives</li> <li>• string lines</li> <li>• levelling equipment</li> <li>• bolt cutters</li> <li>• grinders</li> <li>• screeds</li> <li>• edging tools</li> <li>• jointers</li> <li>• kneel boards</li> <li>• concrete mixer ∞</li> <li>• wood float</li> <li>• bull float</li> <li>• brush</li> </ul> <p>∞ Further risk assessment advice to be provided on the OH&amp;S Directorate web site</p> <p><a href="http://detwww.det.nsw.edu.au/directorates/properties/schools/compenvi/safety/sgadvice.htm">http://detwww.det.nsw.edu.au/directorates/properties/schools/compenvi/safety/sgadvice.htm</a></p>	<p><b>Materials relevant to undertaking concreting work including:</b></p> <ul style="list-style-type: none"> <li>• edge forms/boards (timber or steel)</li> <li>• pegs</li> <li>• bracing</li> <li>• fabric sheet/mesh</li> <li>• cement</li> <li>• form release agents</li> <li>• sand and water</li> <li>• aggregates</li> <li>• steel or timber formwork</li> <li>• reinforcement mesh</li> <li>• plastic membrane</li> <li>• bar chairs</li> <li>• spacers</li> <li>• steel wire for fixing reinforcing</li> <li>• expansion joint</li> <li>• steel reinforcing</li> <li>• lintels</li> <li>• plywood</li> <li>• rolled tubing for formwork</li> <li>• pre-mixed concrete</li> <li>• concrete blend</li> <li>• curing compounds</li> <li>• vapour barriers and membranes</li> <li>• reinforcement bars</li> <li>• rods and ligatures</li> </ul>
For site requirements please refer to Part B of the Construction syllabus		

BCGPD2001B Handle painting and decorating materials	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.	<b><i>Materials relevant to the handling of painting and decorating materials including:</i></b> <ul style="list-style-type: none"> <li>• clean up equipment eg rags, mops, brooms, brushes</li> <li>• cleaning solvents</li> <li>• paints</li> <li>• paint products</li> <li>• waste disposal equipment – refer to EPA</li> <li>• ventilation equipment where relevant, eg extractor fan</li> <li>• water supply</li> </ul>
For site requirements please refer to Part B of the Construction syllabus	

BCGPD2002B Use painting and decorating tools and equipment		
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources	Consumables	
PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.  <b>Tools and equipment must include but not limited to:</b> <ul style="list-style-type: none"> <li>• scrapers</li> <li>• barricades</li> <li>• filling knives/blades</li> <li>• putty knives</li> <li>• duster brushes</li> <li>• hand sanders</li> <li>• paint stirrers</li> <li>• drop sheets</li> <li>• heat guns</li> <li>• wire brushes</li> <li>• hammers</li> <li>• nail punches</li> </ul>	<ul style="list-style-type: none"> <li>• paint pots/buckets</li> <li>• brush-ware</li> <li>• brush-ware accessories</li> <li>• roller frames</li> <li>• roller accessories including extension handle</li> <li>• covers</li> <li>• buckets</li> <li>• conventional and airless spray equipment</li> <li>• ladders no higher than 2 metres</li> <li>• mechanical sanding equipment types - at least one of - random, orbital, disc and belt *</li> </ul> <p>* Refer to Equipment Safety in Schools Policy re Tools and Equipment</p>	<b><i>Materials relevant to using painting and decorating equipment including:</i></b> <ul style="list-style-type: none"> <li>• clean up equipment eg rags, mops, brooms, brushes</li> <li>• paint brushes</li> <li>• roller accessories</li> <li>• roller naps</li> <li>• cleaning solvents</li> <li>• paints</li> <li>• paint products</li> <li>• waste disposal equipment – refer to EPA</li> <li>• ventilation equipment where relevant, eg extractor</li> <li>• fire extinguisher refill</li> <li>• containers</li> <li>• masking tape</li> </ul>
For site requirements please refer to Part B of the Construction syllabus		

BCGSF2004B Place and fix reinforcements	
<b>Pre-requisite unit: Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• bolt cutters</li> <li>• wire nippers</li> <li>• tie wire reels</li> <li>• measuring tapes/rules</li> <li>• reinforcement benders</li> </ul>	<p><b><i>Materials relevant to the placement and fixing of reinforcement materials including:</i></b></p> <ul style="list-style-type: none"> <li>• wire ties</li> <li>• ligatures and spacers/spreaders</li> <li>• deformed bars</li> <li>• plain rods</li> <li>• bar chairs</li> <li>• mesh sheets</li> </ul>
<b>For site requirements please refer to Part B of the Construction syllabus</b>	

BCGSP2003B Prepare surfaces for plastering	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
Essential tools, equipment and resources	Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b><i>Tools and equipment must include but not limited to:</i></b></p> <ul style="list-style-type: none"> <li>• scrapers</li> <li>• brushes</li> <li>• brooms</li> <li>• sponges</li> <li>• buckets</li> <li>• sanding blocks</li> <li>• shovels</li> <li>• power sanders *</li> <li>• power grinders *</li> <li>• filling blades</li> <li>• chisels</li> <li>• hammers</li> <li>• trowels</li> <li>• ladders no higher than 2 metres</li> </ul> <p>* Refer to Equipment Safety in Schools Policy re tools and equipment</p>	<p><b><i>Materials relevant to preparation of surfaces for plastering including:</i></b></p> <ul style="list-style-type: none"> <li>• abrasives</li> <li>• plaster</li> <li>• sand</li> <li>• cement</li> <li>• lime putty</li> <li>• caulking compounds</li> <li>• cellulose/plastic proprietary fillers</li> <li>• sheet materials</li> </ul>
<b>For site requirements please refer to Part B of the Construction syllabus</b>	

BCGWF2002B Use wall and floor tiling tools and equipment		
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources		Consumables
<p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• tile cutters</li> <li>• scribes</li> <li>• measuring tapes/rules</li> <li>• levelling equipment</li> <li>• straight edges</li> <li>• line levels</li> <li>• string lines</li> <li>• spirit levels</li> <li>• water levels</li> <li>• scrapers</li> <li>• masonry saws (wet or dry) # ∞</li> <li>• shovels</li> <li>• wooden floats</li> <li>• trowels</li> <li>• spacer/wedges</li> <li>• squares</li> <li>• buckets</li> <li>• sponges and rags</li> <li>• rubber mallets</li> <li>• lump hammers</li> </ul>	<ul style="list-style-type: none"> <li>• caulking guns</li> <li>• nippers</li> <li>• squeegees</li> <li>• pointed grouter</li> <li>• power drill *</li> <li>• ladders no higher than 2 metres</li> </ul> <p>* Refer to Equipment Safety in Schools Policy re tools and equipment</p> <p># Item of equipment would normally be accessed off site – students are NOT required to use this equipment)</p> <p>∞ Further risk assessment advice to be provided on the OH&amp;S Directorate web site</p> <p><a href="http://detwww.det.nsw.edu.au/directories/properties/schools/compenvi/safety/sgadvice.htm">http://detwww.det.nsw.edu.au/directories/properties/schools/compenvi/safety/sgadvice.htm</a></p>	<p><b>Materials relevant to using wall and floor tiling tools and equipment including:</b></p> <ul style="list-style-type: none"> <li>• tiles</li> <li>• ceramics</li> <li>• slate</li> <li>• adhesives</li> <li>• grout</li> <li>• cement mortar</li> </ul>
For site requirements please refer to Part B of the Construction syllabus		

BCGVE1002B Undertake a basic construction project		
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.		
Essential tools, equipment and resources		Consumables
<p>PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.</p> <p><b>Tools and equipment must include but not limited to:</b></p> <ul style="list-style-type: none"> <li>• those appropriate to the project</li> </ul>		<p><b>Materials relevant to the basic construction project</b></p>
For site requirements please refer to Part B of the Construction syllabus		

<b>BCGVE1003B</b> <b>Undertake a basic computer design project</b>	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
<b>Essential tools, equipment and resources</b>	<b>Consumables</b>
<i><b>Tools and equipment must include but not limited to:</b></i> <ul style="list-style-type: none"> <li>• client brief covering the design requirements</li> <li>• computing system, including computer-aided design software</li> <li>• printer</li> </ul>	<i><b>Materials relevant to the basic computer design project :</b></i> <ul style="list-style-type: none"> <li>• paper</li> <li>• printer</li> </ul>
<b>For site requirements please refer to Part B of the Construction syllabus</b>	

<b>BCGVE1004B</b> <b>Undertake basic estimation and costing</b>	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
<b>Essential tools, equipment and resources</b>	<b>Consumables</b>
PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.  <i><b>Tools and equipment must include but not limited to:</b></i> <ul style="list-style-type: none"> <li>• drawings</li> <li>• calculator</li> </ul>	<i><b>Materials relevant to estimating and costing projects</b></i>
<b>For site requirements please refer to Part B of the Construction syllabus</b>	

<b>BCGVE2001B</b> <b>Produce construction drawings</b>	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
<b>Essential tools, equipment and resources</b>	<b>Consumables</b>
PPE as prescribed under legislation/regulation codes of practice and workplace policy practices listed above.  <i><b>Tools and equipment must include but not limited to:</b></i> <ul style="list-style-type: none"> <li>• drawing equipment eg drawing board, set squares etc</li> <li>• specifications and work instructions</li> <li>• project plans and specifications</li> <li>• examples of construction drawings</li> </ul>	<i><b>Materials relevant to producing construction drawings:</b></i> <ul style="list-style-type: none"> <li>• paper</li> <li>• drawing instruments</li> </ul>
<b>For site requirements please refer to Part B of the Construction syllabus</b>	

<b>BSBCMN209A</b>	
<b>Provide information to clients</b>	
<b>Pre-requisite unit: BCGCM10001B Follow OH&amp;S policies and procedures</b>	
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. Trainers should always be conscious of the requirements as listed on 11-13 of this document.	
<b>Essential tools, equipment and resource</b>	<b>Consumables</b>
<b><i>Tools and equipment must include but not limited to:</i></b> <ul style="list-style-type: none"> <li>• organisational charts, internal telephone directories</li> <li>• policy and procedures manuals</li> <li>• company reports/annual reports</li> <li>• company catalogues, price lists</li> <li>• email</li> <li>• fax machine</li> <li>• telephone</li> </ul>	<b><i>Materials relevant to providing information to clients</i></b>
<b>For site requirements please refer to Part B of the Construction syllabus</b>	



## Quality assurance requirements

The implementation of HSC VET courses must be monitored to ensure compliance with the Australian Quality Training Framework (AQTF) and the Board of Studies HSC requirements.

The following checklists have been designed to assist schools in this process:

- teacher qualifications
- student work placement
- student assessment
- resources/equipment.

The checklists have been designed to be photocopied and completed by teachers implementing this course. Checklists for resources/equipment must be completed for compulsory and elective units of competency. Principals should use these checklists to monitor the implementation of HSC VET courses to ensure compliance with AQTF and the Board of Studies HSC requirements.

It is the responsibility of the principal to complete the following forms and to forward them to the appropriate RTO/school sector senior representative:

- checklists for Construction Industry Curriculum Framework to be delivered in that year
- Principal's Confirmation of Quality Assurance Requirements
- Monitoring Higher School Certificate Requirements (distributed to schools in February each year).

In addition, at the start of each year as part of the Board of Studies student entry requirements, schools are required to indicate via Schools On-line the qualification and units of competency intended for delivery in that calendar year. This requires the completion of the *competencies entered* component of the eBOS-VCS. At the end of each year schools are required to indicate via Schools On-line the specific outcome for any units of competency entered. This information will be used to generate an AQF Statement of Attainment or Certificate.

## Accreditation required to deliver and assess certain units of competency

The following units of competency are in the Framework, but are not part of the Construction teacher industry training. Teachers must hold individual accreditation if they wish to deliver them.

The content of all units of competency in the 240 hour course is in Part B of the Construction Curriculum Framework and is available on the Board of Studies web site at: [http://www.boardofstudies.nsw.edu.au/syllabus\\_hsc/construction\\_partb\\_index.html](http://www.boardofstudies.nsw.edu.au/syllabus_hsc/construction_partb_index.html)

**Elective Pool – Teachers must hold school sector accreditation for the following individual units of competency. Evidence must be provided to the relevant RTO.**

Unit of competency	
BCGBL2002B	Use bricklaying and blocklaying tools and equipment
BCGBL3001B	Lay paving
BCGBL3002B	Carry out masonry veneer construction
BCGBL3008B	Install aerated autoclaved concrete (AAC) products
BCGCA3002B	Carry out setting out
BCGPD2003B	Remove and replace doors and door and window furniture
BCGSF2003B	Cut and bend materials using Oxy/LPG equipment

### Additional elective for Construction (240 indicative hours)

This unit of competency is not on the Scope of Registration of school RTOs. It can only be delivered by an outside RTO such as TAFE NSW.

Unit code	Unit title	HSC indicative hours of credit
BCGCM2008B	Erect and dismantle restricted height scaffolding	20

**Details of this unit of competency and other specialised units are available in the Training Package or at [www.ntis.gov.au](http://www.ntis.gov.au)**

# Construction Checklists

## 1. Teacher qualifications

Teachers delivering and assessing the Construction Industry Curriculum Framework must meet the teacher qualifications requirements. Only teachers who have (i) completed the approved training program, (ii) commenced the approved training program, or (iii) been approved to deliver and assess on the basis of recognition of prior learning (RPL) may deliver this course. Teachers delivering and assessing this course must maintain industry currency.

List the names of teachers delivering the Construction Industry Framework in the current year and indicate their training status and maintenance of industry currency by placing a ✓ in the appropriate box.

Name of teacher	Approved Training Program		Approved to deliver / assess through RPL
	Completed	In Progress	

School: \_\_\_\_\_

Regional RTO: \_\_\_\_\_

Principal's Name: \_\_\_\_\_

Principal's Signature \_\_\_\_\_

Date: \_\_\_\_\_

## Construction Checklist

### 2. Student work placement

Students have been fully informed of the:

- ☐ mandatory work placement hours required for this course
- ☐ purposes of the work placement, and the
- ☐ due dates for completion of the work placement.

Students have completed and hold the WorkCover credential for:

- ☐ OH&S Industry Induction Course

The school has procedures in place for the class teachers, work placement coordinators and workplace supervisors to reach agreement on the:

- ☐ structure and timing of the work placements
- ☐ units of competencies to be addressed during work placements
- ☐ procedures to address the relevant occupational health and safety regulations.

The school has procedures in place to ensure that the:

- ☐ *Employer's Guide to Workplace Learning* [see Workplace Learning Handbook: Appendix 3] has been provided to the host employer prior to placement commencing
- ☐ *Student Placement Record* [see Workplace Learning Handbook, Appendix 2] is fully completed prior to placement (i.e. signed by the host employer, school principal or nominee, student and parent or care giver) and stored according to Departmental requirements following placement.

### 3. Student assessment

- ☐ An assessment program has been developed using appropriate assessment tasks to allow students to properly demonstrate achievement of units of competency and has been issued to all participating students
- ☐ Student achievement of units of competency is being progressively updated in Competency Record Books where these are in use
- ☐ Information on intended qualifications, units of competency to be delivered and units of competency achieved is being progressively entered into eBOS-VCS via Schools Online in accordance with the timeline advised by the Board of Studies.

School: \_\_\_\_\_

Regional RTO: \_\_\_\_\_

Principal's Name: \_\_\_\_\_

Principal's Signature \_\_\_\_\_

Date: \_\_\_\_\_

## Construction Checklist

### 4. Resources/equipment

Students must have sufficient access to the specified resources/equipment to enable them to acquire and demonstrate competency. Resources/equipment may be accessible either on-site (at school) or off-site (including the work placement).

On the following checklist, indicate whether students access the resources/ equipment for the specified competencies on-site, off-site or both.

Compulsory units (120 and 240 indicative hours)			
Unit of competency		Access ON site	Access OFF site
BCGCM1001B	Follow OH&S policies and procedures		
BCGCM1004B	Conduct workplace communication		
BCGCM1005B	Carry out measurements and calculations		
BCGVE1002B	Undertake a basic construction project		
BCGCM2001B	Read and interpret plans and specifications		
BCGCM2004B	Handle construction materials		
BCGCM2005B	Use construction tools and equipment		

Additional compulsory units (240 indicative hours)			
Unit of competency		Access ON site	Access OFF site
BCGCM1001B	Follow OH&S policies and procedures		
BCGCM1002B	Work effectively in the General Construction industry		
BCGCM1003B	Plan and organise work		
BCGCM1004B	Conduct workplace communication		
BCGCM1005B	Carry out measurements and calculations		
BCGCM2001B	Read and interpret plans and specifications		
BCGCM2004B	Handle construction materials		
BCGCM2005B	Use construction tools and equipment		
BCGCM2006B	Apply basic levelling procedures		
RTC2704A	Provide basic first aid		

Elective Pool			
Unit of competency		Access ON site	Access OFF site
BCGCM2009B	Carry out basic demolition		
BCCCM2004B	Drain and dewater site		
BCGBL2001B	Handle and prepare bricklaying and blocklaying materials		
BCGCA2001B	Handle carpentry materials		
BCGCA2002B	Use carpentry tools and equipment		
BCGCA2003B	Erect and dismantle formwork for footings and slabs on ground		
BCGCA3023B	Carry out levelling operations		
BCGCM2002B	Carry out excavation		
BCGCO2001B	Handle concreting materials		
BCGCO2002B	Use concreting tools and equipment		
BCGCO2003B	Carry out concreting to simple forms		
BCGCO2004B	Carry out concrete work		
BCGPD2001B	Handle painting and decorating materials		
BCGPD2002B	Use painting and decorating tools and equipment		
BCGSF2004B	Place and fix reinforcement materials		
BCGSP2003B	Prepare surfaces for plastering		
BCGWF2002B	Use wall and floor tiling tools and equipment		
BCGVE1002B	Undertake a basic construction project		
BCGVE1003B	Undertake a basic computer design project		
BCGVE1004B	Undertake a basic estimation and costing		
BCGVE2001B	Produce construction drawings		
BSBCMN209A	Provide information to clients		

School: \_\_\_\_\_

Regional RTO: \_\_\_\_\_

Principal's Name: \_\_\_\_\_

Principal's Signature \_\_\_\_\_

Date: \_\_\_\_\_

**Additional Elective Pool** - Teachers must hold school sector accreditation for the following individual units of competency and have referred to the ***Equipment Safety in Schools policy re tools and equipment***

Unit of competency		Access ON site	Access OFF site
BCGBL2002B	Use bricklaying and blocklaying tools and equipment		
BCGBL3001B	Lay paving		
BCGBL3002B	Carry out masonry veneer construction		
BCGBL3008B	Install aerated autoclaved concrete (AAC) products		
BCGCA3002B	Carry out setting out		
BCGPD2003B	Remove and replace doors and door and window furniture		
BCGSF2003B	Cut and bend materials using Oxy/LPG equipment		

**Additional elective for Construction (240 indicative hour)**

**This unit of competency is not on the Scope of Registration of school RTOs. It can only be delivered by an outside RTO such as TAFE NSW.**

BCGCM2008B	Erect and dismantle restricted height scaffolding
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Details of this unit of competency are available in the Training Package or at [www.ntis.gov.au](http://www.ntis.gov.au).

School: \_\_\_\_\_

Regional RTO: \_\_\_\_\_

Principal's Name: \_\_\_\_\_

Principal's Signature \_\_\_\_\_

Date: \_\_\_\_\_